

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"5434239".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/15 16:44
L2	0	95/187,199,211,223,224,225,237.clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/15 17:13
L3	1785	95/187,199,211,223,224,225,237.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/15 17:14
S1	615	(Purif\$7 and cool\$3) and (dialkyl near10 ester) and ((terephthalic or isophthalic or 2, 6-naphthalenedicarboxylic) adj acid)	US-PGPUB; USPAT	OR	ON	2009/08/14 09:35
S2	712	(Purif\$7 and cool\$3) and (dialkyl near10 ester) and ((terephthalic or isophthalic or 2, 6-naphthalenedicarboxylic) adj acid)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/14 09:36
S3	626	S2 and (dihydrox\$7 or glycol)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/14 09:38
S4	0	("95.ccls").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/14 09:40
S5	0	"95.ccls"	US-PGPUB; USPAT	ADJ	ON	2009/08/14 09:40
S6	0	"95"/\$.ccls	US-PGPUB; USPAT	ADJ	ON	2009/08/14 09:40
S7	0	("95"/\$.ccls).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/14 09:41

## EAST Search History (Prior Art)

S8	0	"95".ccls.	US-PGPUB; USPAT	ADJ	ON	2009/08/14 09:41
S9	20808	("95").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/14 09:42
S10	0	("I9andI3").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/14 09:42
S11	626	S3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/14 09:49
S12	50	S11 and ((stage or step or zone or layer) adj (multi or multiple))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/14 09:50
S13	626	S3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/14 09:51
S14	590	S3 and (step or stage or zone or layer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/14 09:52
S15	645	S2 and (dihydrox\$7 or glycol or diol)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/14 09:58
S16	0	("2008/0236391").URPN.	USPAT	ADJ	ON	2009/08/14 10:37
S17	56111	(dialkyl near S10 ester) or (terephthalic acid or isophthalic acid or 2, 6-naphthalenedicarboxylic acid)	US-PGPUB; USPAT	ADJ	ON	2009/08/14 11:23
S18	34972	S17 and (gas or stream or vapor)	US-PGPUB; USPAT	ADJ	ON	2009/08/14 11:24
S19	0	S18 and puirf\$7	US-PGPUB; USPAT	ADJ	ON	2009/08/14 11:25

## EAST Search History (Prior Art)

S20	8193	S18 and purif\$7	US-PGPUB; USPAT	ADJ	ON	2009/08/14 11:25
S21	1792	S18 and ((purif\$7 or seperat\$5) SAME1 (glycol or diol or dihydrox\$5))	US-PGPUB; USPAT	ADJ	ON	2009/08/14 11:27
S22	68	S21 and (multistep\$5 or multistage\$5 or multizone\$5 or multilevel\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/14 11:30
S23	3432695	(dialkyl near S10 ester) or (terephthalic acid or isophthalic acid or 2, 6-naphthalenedicarboxylic acid)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/14 11:32
S24	970506	S23 and (gas or stream or vapor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/14 11:32
S25	290993	S24 and purif\$7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/14 11:33
S26	42068	S24 and (purif\$7 or seperat\$5) same1 (glycol or diol dihydroxy\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/14 11:34
S27	486	S26 and (step\$2 or zone\$2 or layer\$2 or stage\$2) adj (multi or plural\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/14 11:37
S28	0	"95.ccls"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/14 11:38

## EAST Search History (Prior Art)

S29	20808	("95").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/14 11:39
S30	2	S27 and S29	US-PGPUB; USPAT	ADJ	ON	2009/08/14 11:39
S31	57476	S24 and (purif\$7 or separat\$5 or recover\$5) same1 (glycol or diol dihydroxy\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/14 11:42
S32	449	S31 and (step\$2 or stage\$2 or zone\$2 or layer\$2) adj (multi or plural)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/14 11:44
S33	0	("6312503,5434239,3839414,3227743,145540,160829,134835,0741124,10316466").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/14 14:04
S34	1	("6312503").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/14 14:05
S35	24	("2878107"   "3210914"   "3432994"   "3445182"   "3556490"   "3739551"   "3936281"   "3944401"   "4110088"   "4230819"   "4263425"   "4340721"   "4356299"   "5080696"   "5434239"   "5474597"   "5496778"   "5660615").PN. OR ("6312503").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/14 14:05
S36	0	DD 145540A	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/14 14:44
S37	1	DD 145540A	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/14 14:48
S38	360	(terephtha\$ or isphthala\$ or \$naphthalendicarboxyl\$) and "95".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/19 07:51

## EAST Search History (Prior Art)

S39	106703	"2" and (gas adj stream)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/19 07:52
S40	126	S38 and (gas adj stream)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/19 07:53
S41	0	S38 and 95/187,199,211,223,224,225,237. ccls	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/19 07:53
S42	0	S38 and 95/187,199,211,223,224,225,237. clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/19 07:53
S43	0	(1and95/187,199,211,223,224,225,237.clas. ) .CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 07:54
S44	0	S38 and 95/187,199,211,223,224,225,237. clas.	US-PGPUB; USPAT	ADJ	ON	2009/08/19 07:54
S45	16	S38 and 95/187,199,211,223,224,225,237. ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/19 07:54
S46	13	("2921648"   "3503186"   "3658463"   "3907972"   "3909206").PN. OR ("4115081").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/19 09:30
S47	2	S46 and(glycol or diol or banediol or proanediol or (aliphatic adj dihydroxy))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/19 09:31

## EAST Search History (Prior Art)

S48	2	S46 and(glycol or diol or banediol or proanediol or (aliphatic adj dihydroxy))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/19 09:32
S49	2	S46 and (ester)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/19 09:34
S50	27	("1915987"   "2952675"   "3047565"   "3142548"   "3242227"   "3540190"   "3618301"   "3739549"   "3763631"   "3812657"   "3971642"   "4084947"   "4120671"   "4145194"   "4155726"   "4363642"   "4676807"   "4731100"   "5122169"   "5122321").PN. OR ("5429668").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/19 09:37
S51	1	S50 and(glycol or diol or butanediol or propanediol or (aliphatic ad dihydroxy) or dihydroxy)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/19 09:38
S52	0	S50 and (ester)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/19 09:52
S53	9	("3671578"   "4933491"   "5068410"   "5149867"   "5256817"   "5292934").PN. OR ("5629446").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/19 16:14
S54	533061	"9" and (glycol or butandiol or propandiol or (aliphatic adj dihydroxy))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/19 16:19
S55	533061	"9" and (glycol or butandiol or propandiol or (aliphatic adj dihydroxy))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/19 16:20
S56	14	("2952675"   "3047565"   "3353334"   "3535399"   "3542892"   "4043773"   "4425285"   "5122321"   "5401297").PN. OR ("6361586").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/19 16:39

## EAST Search History (Prior Art)

S57	0	S56 and (glycol or butandiol or propandiol or (aliphatic adj dihydroxy))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/19 16:40
S58	5	S56 and (acid)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/19 16:41
S59	15	("3719720"   "3745747"   "3755990"   "3778968"   "3778969"   "3823531"   "3841060"   "4043769"   "4265944"   "5088913"   "5147418"   "5219585"   "5409513"   "5521264"   "5533437").PN. OR ("5749944").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/20 07:54
S60	10	("2225959"   "3321890"   "3492788"   "3589104").PN. OR ("3745747").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/20 09:54
S61	15	("3719720"   "3745747"   "3755990"   "3778968"   "3778969"   "3823531"   "3841060"   "4043769"   "4265944"   "5088913"   "5147418"   "5219585"   "5409513"   "5521264"   "5533437").PN. OR ("5749944").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/20 10:02
S62	15	("3719720"   "3745747"   "3755990"   "3778968"   "3778969"   "3823531"   "3841060"   "4043769"   "4265944"   "5088913"   "5147418"   "5219585"   "5409513"   "5521264"   "5533437").PN. OR ("5749944").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/20 10:08
S63	39	("1866560"   "2225959"   "2603311"   "2988171"   "3253390"   "3255573"   "3737392"   "3745746"   "3745747"   "3831346"   "3855337"   "4005997"   "4282386"   "4334102"   "4446118"   "4479811"   "4518396"   "4689436"   "4784673"   "4810267"   "4979965"   "5167675"   "5346537"   "5453114"   "5462584").PN. OR ("5922109").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/20 10:08
S64	3	S63 and ester	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/20 10:08
S65	0	("2006/0276619").URPN.	USPAT	ADJ	ON	2009/08/20 10:33
S66	0	("2006/0276619").URPN.	USPAT	ADJ	ON	2009/08/20 10:33
S67	1	"10593333"	US-PGPUB; USPAT	ADJ	ON	2009/08/20 13:23

## EAST Search History (Prior Art)

S68	45853	1,4-butanediol	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/02 12:29
S69	37557	(1,4-butanediol) and (purif\$4 or separat\$4 or solvent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/02 12:31
S70	6142	(1,4-butanediol) same (purif\$4 or separat\$4 or solvent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/02 12:31
S71	710	(1,4-butanediol) same (purif\$4 or separat\$4 or solvent) with (ester)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/02 12:31
S72	3	(1,4-butanediol) same (purif\$4 or separat\$4 or solvent) with (dimethylterephthalate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/02 12:32
S73	1	(1,4-butanediol) same (purif\$4 or separat\$4) with (dimethylterephthalate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/02 12:35
S74	426	(1,4-butanediol) with (cool\$4 or purif\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/02 12:37



## EAST Search History (Prior Art)

S75	0	ester with (purify or cool) with 1, 4-butanediol adj4 (solvent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/02 12:45
S76	0	ester with (purify or cool) with 1, 4-butanediol	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/02 12:45
S77	1198	dihydroxy with 1,4-butanediol	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/02 12:45
S78	487	glycol with 1,4-butandiol	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/02 12:50
S79	56154	Butylene glycol or Dihydroxybutane or Tetramethylene near glycol or Butylene near glycol or Dabco DBO or Diol 14B or NSC "406696" or Polycure D or Sucol B or Tetramethylene near2 diol or Tetramethylene near glycol or Vibracure A "250"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 15:09
S80	274457	(Scrub\$5 or clean\$4 or wash\$4) with (gas or stream or vapor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 15:09
S81	63	S79 same S80	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 15:10

## EAST Search History (Prior Art)

S82	2692	(Percentage\$4 or ppm or parts per million or fraction or "%") with (DMT or dimethyl\$1terephthalate\$3 or dimethyl terephthalate or ester near3 terephthal\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 15:23
S83	1	S81 and S82	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 15:24
S84	10	S80 same S82	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 15:24
S85	2	"6642407".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 15:39
S86	4	"160829".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 15:44
S87	0	ep "0741124"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 15:46
S88	2	"0741124".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 15:46

## EAST Search History (Prior Art)

S89	0	"0741124A".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 15:47
S90	2	"0741124".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 15:50
S91	8	"5578173"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 15:51
S92	4	"160829".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 15:53
S93	2	"6274743".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 07:12
S94	2	"6312503".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 07:16
S95	2	"5434239".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 07:18

## EAST Search History (Prior Art)

S96	4	"160829".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 07:20
S97	5	"866997".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 07:38
S98	0	"1"\$"1""4"\$"1"butane\$1diol same dimethyl\$1terephthalate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 07:41
S99	258812	1,4-butanediol same dimethyl terephthalate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 07:41
S10 0	10840	1,4-butanediol same dimethyl terephthalate same ester\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 07:41
S10 1	2	"0471124".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 07:44
S10 2	2	"0741124".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 07:44

## EAST Search History (Prior Art)

S10 3	11428	1,4-butanediol same ester	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 07:48
S10 4	19	1,4-butanediol same ester same (cool or purif) same (gas or vapor or stream)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 07:48
S10 5	425	1,4-butanediol same ester same (gas or vapor or stream)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 07:51
S10 6	0	"1"\$1""4"\$1"butane\$1diol same (dimethyl adj terephthalate dimethylterephthalate or terephthalic acid) same (gas or vapor or stream)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 08:00
S10 7	1138	1,4-butane\$1diol same (dimethyl adj terephthalate dimethylterephthalate or terephthalic acid) same (gas or vapor or stream)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 08:00
S10 8	265	1,4-butane\$1diol same (dimethyl adj terephthalate dimethylterephthalate or terephthalic acid) same (gas or vapor or stream) same (polybutylene terephthalate or pbt)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 08:03
S10 9	9065	transesterification same dimethyl terephthalate same 1,4-butanediol	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 08:04

## EAST Search History (Prior Art)

S11 0	1898	(gas or stream or vapor) same (purif\$4 or cool\$4) same (percent or "%" or ppm or part\$2 adj per adj million) same saturation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 10:38
S11 1	0	S110 same ("less than/equal to fifty percent")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 10:43
S11 2	885	S110 same (less than/equal to 50%)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 10:44
S11 3	0	S110 same ("less than/equal to 50%")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 10:45
S11 4	0	S110 same ("less than/equal to 50 percent")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 10:46
S11 5	0	S110 same ("less than 50 percent")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 10:46
S11 6	0	S110 same ("less than 50%")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 10:46

## EAST Search History (Prior Art)

S11 7	0	S110 same ("less than fifty percent")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 10:46
S11 8	0	S110 same ("50% or less")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 10:51
S11 9	0	S110 same ("50 percent or less")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 10:51
S12 0	0	S110 same ("fifty percent or less")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 10:52
S12 1	0	S110 and ("fifty percent or less")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 10:52
S12 2	0	S110 and ("50 percent or less")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 10:52
S12 3	0	S110 and ("50% or less")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 10:52

## EAST Search History (Prior Art)

S12 4	0	S110 and ("less than 50%")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 10:52
S12 5	0	S110 and ("less than 50 percent")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 10:52
S12 6	0	S110 and ("less than fifty percent")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 10:52
S12 7	0	S110 and ("less than/equal to fifty percent")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 10:53
S12 8	0	S110 and ("less than/equal to 50 percent")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 10:53
S12 9	0	S110 and ("less than/equal to 50%")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 10:53
S13 0	0	"degree of saturation" and "less than/equal to 50%"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 11:39



## EAST Search History (Prior Art)

S13 1	0	"degree of saturation"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 11:39
S13 2	0	"degree of saturation[%]"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 11:39
S13 3	4625689	degree of saturation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/03 11:40
S13 4	45791	"95".clas. or "96".clas.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/09/08 13:17
S13 5	40	S134 and ((dimethyl\$2terephthalate) or (dimethyl near3 terephthalate) or dmt)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/09/08 13:18
S13 6	0	S135 and \$4butandiol	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/09/08 13:18
S13 7	15	S135 and \$4butan\$2diol	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/09/08 13:18
S13 8	21	S135 and glycol	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/09/08 13:22
S13 9	21	S135 and \$5glycol	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/09/08 13:23
S14 0	19	S135 not (S137 or S138)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/09/08 13:24
S14 1	23044	((dimethyl\$2terephthalate) or (dimethyl near3 terephthalate) or dmt)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/09/08 13:52
S14 2	12243	S141 and alcohol	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/09/08 14:00
S14 3	22	S142 and ("95".clas. or "96".clas.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/09/08 14:00

## EAST Search History (Prior Art)

S14 4	1460	((dimethyl\$2terephthalate) or (dimethyl near3 terephthalate) or dmt) same (recover\$4)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/09/08 14:01
S14 5	625	S144 and alcohol	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/09/08 14:01
S14 6	350	S145 and \$6diol	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/09/08 14:03
S14 7	1	"6,657,044".pn.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/09/08 14:08
S14 8	2	(6,657,044 6,245,879).pn.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/09/08 14:13
S14 9	1	"4,578,502".pn.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/09/08 14:21
S15 0	0	"10552283"	EPO; DERWENT	ADJ	ON	2010/09/08 14:33
S15 1	2	"10316466"	EPO; DERWENT	ADJ	ON	2010/09/08 14:33
S15 2	7	("3227743" "3839414" "6312503").PN.	EPO; DERWENT	ADJ	ON	2010/09/08 14:45
S15 3	12	("3227743" "3839414" "6312503").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/09/08 14:45
S15 4	2	"5434239".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/09/08 15:07
S15 5	1	"10593333"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/09/08 15:17

## EAST Search History (Prior Art)

S15 6	2	"5,749,944".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/09/08 15:20
S15 7	15	("3719720"   "3745747"   "3755990"   "3778968"   "3778969"   "3823531"   "3841060"   "4043769"   "4265944"   "5088913"   "5147418"   "5219585"   "5409513"   "5521264"   "5533437").PN. OR ("5749944").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 15:22
S15 8	1	S148 and dmt	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 15:22
S15 9	1	S158 and glycol	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 15:22
S16 0	3	(dmt near5 stor\$4) same (nitrogen or inert)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:07
S16 1	47	(dmt same stor\$4) same (nitrogen or inert)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:09
S16 2	31	S161 and glycol	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:09
S16 3	1	S162 and ("95".clas. or "96.clas" or "55". clas.)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:09
S16 4	13	S161 and diol	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:13
S16 5	1016	dmt near10 (resid\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:26
S16 6	104	S165 and pet	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:26
S16 7	597	(dmt near10 (resid\$4) same (nitrogen or inert))	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:27
S16 8	104	S166 and pet	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:27
S16 9	5	S167 and pet	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:27

## EAST Search History (Prior Art)

S17 0	1	S169 not methanolysis	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:28
S17 1	1514	(dmt same (nitrogen or inert))	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:29
S17 2	156	(S171 and pet) not methanolysis	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:29
S17 3	149	S172 not depolymeriz\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:30
S17 4	560270	(dmt same (nitrogen or inert) same stor\$4 or tank)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:49
S17 5	54	(dmt same (nitrogen or inert) same (stor\$4 or tank))	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:49
S17 6	9	S175 same glycol	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:49
S17 7	319	dmt near10 (excess or extra or wast\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:51
S17 8	111	S177 and pet	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:51
S17 9	36	S178 not (depolymeriz\$4 or methanolysis)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:51
S18 0	109	dmt near10 (extra or wast\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:54
S18 1	45	S180 not (depolymeriz\$4 or methanolysis)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:55
S18 2	38	(un\$2react\$3 near10 dmt)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:59
S18 3	1	S182 and pet	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:59
S18 4	442	(un\$2react\$3 same dmt)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:59
S18 5	47	S184 and pet	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 16:59

## EAST Search History (Prior Art)

S18 6	13	(un\$2react\$3 same dmt same (nitrogen or inert)) and pet	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 17:00
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